
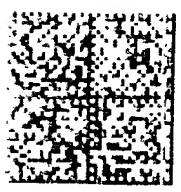
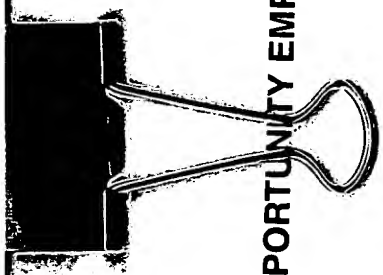


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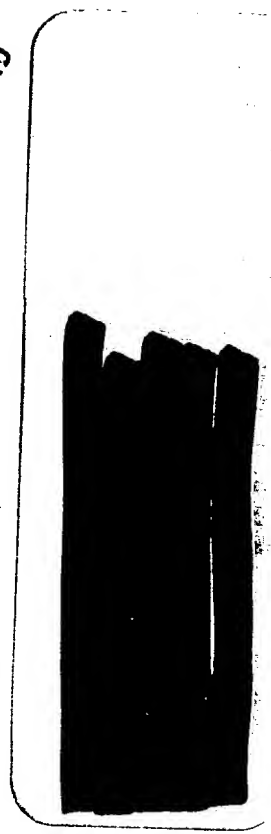
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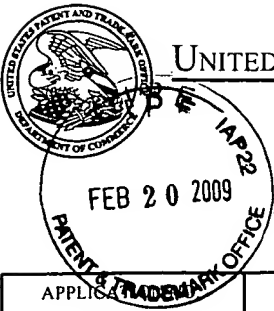


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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/832,812

04/12/2001

Andras Sarkozy

STOCCOM-P5AUSR1

2745

7590 02/06/2009  
STORAGECOMPUTER CORPORATION  
11 RIVERSIDE DRIVE  
NASHUA, NH 03062.

EXAMINER

KIM, HONG CHONG

ART UNIT

PAPER NUMBER

2185

MAIL DATE

DELIVERY MODE

02/06/2009

PAPER

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The time period for reply, if any, is set in the attached communication.



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APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION	ATTORNEY DOCKET NO.
09832812	4/12/2001	SARKOZY ET AL.	STOCCOM-P5AUSRI

STORAGECOMPUTER CORPORATION  
11 RIVERSIDE DRIVE  
NASHUA, NH 03062

EXAMINER

Hong . Kim

ART UNIT	PAPER
2185	20090113

DATE MAILED:

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**Commissioner for Patents**

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**Attachments:**

IDS Mail Date: 8/2/01, 2/7/02, 4/8/02, 5/17/02, 8/8/02, 8/19/02, 5/20/03, and 8/25/04.

/Hong Kim/  
Primary Examiner, Art Unit 2185

### **DETAILED ACTION**

1. Claims 1-165 are presented for examination.
2. Applicant is reminded of the continuing obligation under 37 CFR 1.178(b), to timely apprise the Office of any prior or concurrent proceeding in which Patent No. 5,93,919 is or was involved. These proceedings would include interferences, reissues, reexaminations, and litigation.

Applicant is further reminded of the continuing obligation under 37 CFR 1.56, to timely appraise the Office of any information which is material to patentability of the claims under consideration in this reissue application.

These obligations rest with each individual associated with the filing and prosecution of this application for reissue. See also MPEP §§ 1404, 1442.01 and 1442.04.

### ***Amendment to Reissue application***

3. The amendment filed 4/12/01 proposes amendments to the claims and the amendment filed 2/19/02 proposes amendments to the drawings that do not comply with 37 CFR 1.173(b), which sets forth the manner of making amendments in reissue applications. A supplemental paper correctly amending the reissue application is required. Because underline marking is missing on newly added claim 14 (see amendment filed on 4/12/01). Also changes to the drawings filed on 2/19/02 must be included a replacement sheet of drawings which shall be an attachment to the

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amendment document. Any replacement sheet of drawings must be in compliance with § 1.84 and shall include all of the figures appearing on the original version of the sheet, even if only one figure is amended. Amended figures must be identified as "Amended," and any added figure must be identified as "New." In the event that a figure is canceled, the figure must be surrounded by brackets and identified as "Canceled." All changes to the drawing(s) shall be explained, in detail, beginning on a separate sheet accompanying the papers including the amendment to the drawings. See 37 CFR 1.173(b)(3) and MPEP § 1414 and 1453.

The amendments to the claims filed on 4/12/01 and 2/19/02 are defective for failure to comply with provisions of 37 CFR 1.173.

Although applicant include a very general statement for support for claim changes (applicant "Remark" filed on 2/19/02), however, each change made in the claim is not being accompanied by a concise explanation of the support in the disclosure of the patent for the change made to the claim (i.e., support for all changes made in the claims, whether insertions or deletions) (37CFR 1.173 C and MPEP 1453). In other words, the claimed subject matter for each of the claims is not clearly mapped to the specification by page and line number, and to the drawing, if any, by reference characters. A concise explanation of the subject matter defined in each of the claims involved in the reissue amendment, which must refer to the specification by page and line number, and to the drawing, if any, by reference characters. While reference to page and line number of the specification requires somewhat more detail than simply

summarizing the invention, it is considered important to enable the Examiner to more quickly determine where the claimed subject matter is described in the application. Also every means plus function and step plus function as permitted by 35 U.S.C. 112, sixth paragraph, must be identified and the structure, material, or acts described in the specification as corresponding to each claimed function must be set forth with reference to the specification by page and line number, and to the drawing, if any, by reference characters. Also support for a program storage medium and a computer readable medium should be provided to prevent possible 112 1<sup>st</sup> paragraph and 101 rejections. Applicant did not clearly point out what is changed in the "Remarks" portion of the amendment. A clear explanation on each of the newly added claims 11-165 filed on 4/12/01 and 2/19/02 should appear in the remarks (see MPEP 1453).

**A shortened statutory period for reply to this letter is set to expire ONE (1) MONTH or THIRTY (30) DAYS, whichever is longer, from the mailing date of this letter.**

4. Applicant is notified that any subsequent amendment to the specification and/or claims must comply with 37 CFR 1.173(b). In addition, when any substantive amendment is filed in the reissue application, which amendment otherwise places the reissue application in condition for allowance, a supplemental oath/declaration will be required. See MPEP § 1414.01. Applicant is notified that any subsequent amendment to the specification and/or claims must comply with 37 CFR 1.173(b). In addition, when

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any substantive amendment is filed in the reissue application, which amendment otherwise places the reissue application in condition for allowance, a supplemental oath/declaration will be required. See MPEP § 1414.01.

***Oath/Declaration***

5. The reissue oath/declaration filed with this application is defective (see 37 CFR 1.175 and MPEP § 1414) because the declaration does not specifically identifying the error. Any error in the claims must be identified by reference to the specific claim(s) and the specific claim language wherein lies in error. It appears as though applicant is saying that the not requirement of the “parity information” limitation from the claims is the error, however, the new issue claims also contain “parity” (i.e. claim 35, “at least one parity block”). There should be more specificity including an indication of where in the specification the embodiment now being claimed can be found.

A new reissue oath or declaration in compliance with 37 CFR 1.175 is required. See MPEP § 1414.

6. Claims 11-165 are rejected as being based upon a defective reissue declaration under 35 U.S.C. 251 as set forth above. See 37 CFR 1.175.

The nature of the defect(s) in the declaration is set forth in the discussion above in this Office action.

***Information Disclosure Statement***

7. Acknowledgment is made of applicant's Information Disclosure Statement (IDS) Form PTO-1449, filed on 8/2/01, 2/7/02, 4/8/02, 5/17/02, 8/8/02, 8/19/02, 5/20/03, and 8/25/04. In an attempt to fulfill Applicant's duty to disclose information which is material to patentability according to 37 CFR 1.56, Applicants have submitted a large number of documents for the Examiner to consider. Documents filed on 8/25/04, cited numbers 6 thru 11, and the documents filed on 5/20/03 sheets 15-16 were considered, however, it appears that those are not material to patentability and should not have been submitted. Also it appears from a cursory review of the rest of documents that the vast majority of them are not material to patentability and should not have been submitted. In fact, the sheer number of documents creates an undue burden on the Examiner since if each document is material to patentability, each document must be carefully considered.

According to MPEP 609 (emphasis added): Although a concise explanation of the relevance of the information is not required for English language information, applicants are encouraged to provide a concise explanation of why the English-language information is being submitted and how it is understood to be relevant. Concise explanations (especially those which point out the relevant pages and lines) are helpful to the Office, particularly where documents are lengthy and complex and applicant is aware of a section that is highly relevant to patentability or where a large number of documents are submitted and applicant is aware that one or more are highly relevant to patentability.



Additionally, Applicant is made aware of the court decision in *Penn Yan Boats, Inc. v. Sea Lark Boats, Inc., et al.*, 175 USPQ 260 (DC SFla, 1972) which stated that "Applicant has obligation to call most pertinent prior patent to attention of Patent Office in a proper fashion and to attempt to patentably distinguish his claimed invention from disclosure of patent; failure to take these affirmative steps, particularly when coupled with misrepresentations made to the Patent Office, renders unenforceable the patent issued on his application." Apparently a good reference was buried in the mountain of prior art in the case and never pointed out by the Applicant.

Applicant is requested/reminded that only documents which are "material to patentability" should be submitted. See 37 CFR 1.56 for definition of materiality.

Accordingly, the documents filed on 8/25/04, cited numbers 6 thru 11, and the documents filed on 5/20/03, sheets 15-16 were considered, however, the rest of documents on the information disclosure statements have not been considered. Applicant should submit a new IDS containing only those documents which are material to patentability, and Applicant should call Examiner's attention to particular passages and/or figures of particular documents. Resubmission of the previously submitted documents is not necessary.

### ***Conclusion***

1. When responding to the office action, Applicant is advised to clearly point out the patentable novelty which he or she thinks the claims present in view of the state of the art disclosed by the references cited or the objections made. He or she must also show

Art Unit: 2185

how the amendments avoid such references or objections. See 37 CFR 1.111(c).

2. When responding to the office action, Applicants are advised to provide the examiner with the line numbers and page numbers in the application and/or references cited to assist examiner to locate the appropriate paragraphs.

3. A shortened statutory period for reply to this letter is set to expire ONE (1) MONTH or THIRTY (30) DAYS, whichever is longer, from the mailing date of this letter.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hong C Kim whose telephone number is (571) 272-4181. The examiner can normally be reached on M-F 9:00 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sanjiv Shah can be reached on (571) 272-4098. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application should be directed to the TC 2100 whose telephone number is (571) 272-2100.

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5. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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/Hong Kim/  
Primary Examiner, Art Unit 2185  
January 12, 2008

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

1

1

<b>Application Number</b>	09/832,812
<b>Filing Date</b>	04/12/2001
<b>First Named Inventor</b>	SARKOZY, et al
<b>Group Art Unit</b>	2185
<b>Examiner Name</b>	Kim
<b>Attorney Docket Number</b>	STO-05RI

## U.S. PATENT DOCUMENTS

[illegible]

**Examiner  
Signature**

/Hong Kim/

Date  
Considered

01/12/2009

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1Unique citation designation number. 2See attached Kinds of U.S. Patent Documents. 3Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6Applicant is to place a check mark here if English language Translation is attached.

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Sheet	1	of	22		

[illegible][illegible]

Examiner Signature	/Hong Kim/	Date Considered	01/12/2009
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		Filing Date	4/12/2001
		First Named Inventor	Sarkozy et al.
		Group Art Unit	2185
		Examiner Name	Kim
		Attorney Docket Number	STC-05RI
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		GIBSON, G.A., "Redundant Disk Arrays: Reliable, Parallel Secondary Storage," The MIT Press, Cambridge, Massachusetts (1992), pp. xvii-xxi and 1-288.	
		MATTHEWS, K.C., "Implementing a Shared File System on a HIPPI Disk Array," Fourteenth IEEE Symposium on Mass Storage Systems (1995), pp. 77-88.	
		Katz, R. H., "High-Performance Network and Channel Based Storage," Proceedings of the IEEE, Vol. 80, No. 8 (August 1992), pp. 1237-1261.	
		"Protocols for X/Open PC Interworking: SMB, Version 2," X/Open CAE Specification (1992) pp. 121-133, 135-149 and 151-177.	
		GIBSON, G.A., et al., "A Case for Network-Attached Secure Disks," School of Computer Science, Carnegie Mellon University (September 25, 1996) pp. 1-19.	
		"The RAIDBook: A Source Book for RAID Technology," Edition 1-1, The RAID Advisory Board, St. Peter, MN(November 18, 1993), pp. 1-110.	
		DRAPEAU, A.L., et al, "RAID-II: A High-Bandwidth Network File Server," IEEE (1994), pp. 234-244.	
		COPELAND, G., et al., "A Comparison Of High-Availability Media Recovery Techniques," Association for Computing Machinery (May 1989), pp. 98-109.	
		COYNE, R.A., et al., "The High Performance Storage System," Association for Computing Machinery (April 1993) pp. 83-92.	
		CROCKETT, T. W., "File Concepts For Parallel I/O," Association for Computing Machinery (August 1989), pp. 574-579.	
		DARLIN, M.D., et al., "A Quantitative Analysis of Cache Policies for Scalable Network File Systems," Association for Computing Machinery (May 1994), pp. 150-160.	

Examiner Signature	/Hong Kim/	Date Considered	01/12/2009
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		Filing Date	4/12/2001
		First Named Inventor	Sarkozy et al.
		Group Art Unit	2185
		Examiner Name	Kim
		Attorney Docket Number	STO-05RI
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		COMER, D. E., et al., "Uniform Access to Internet Directory Services," Association for Computing Machinery (August 1990), pp. 50-59.	
		KRONENBERG, N.P., et al., "VAXclusters: A Closely-Coupled Distributed System," ACM Transactions on Computer Systems, Vol. 4, No. 2 (May 1986), pp. 130-146.	
		KIM, W., "Highly Available Systems for Database Applications," Computing Surveys, Vol. 16, No.1 (March 1984), pp.71-98.	
		JOSHI, S.P., "The Fiber Distributed Data Interface: A Bright Future Ahead," IEEE (1986), pp. 504-512.	
		HUBER, J.V. Jr., et al., "PPFS: A High Performance Portable Parallel File System," Association for Computing Machinery (June 1995), pp. 335-394.	
		KING, R.P., et al., "Management of a Remote Backup Copy for Disaster Recovery," ACM Transactions on Database Systems, Vol. 16, No. 2 (June 1991), pp. 338-368.	
		SVOBODOVA, L., "File Servers for Network-Based Distributed Systems," Computing Surveys, Vol. 16, No. 4 (December 1984), pp. 353-398.	
		LANTZ, K.A., et al., "Towards a Universal Directory Service," Association for Computing Machinery (September 1985), pp. 250-260.	
		HOWARD, J.H., et al., "Scale and Performance in a Distributed File System," ACM Transactions on Computer Systems, Vol. 6, No. 1 (February 1988), pp. 51-81.	
		DAVIDSON, S.B., et al., "Consistency In Partitioned Networks," Computing Surveys, Vol. 17, No. 3 (September 1985) pp. 341-370.	
		TANENBAUM, A.S., et al., "Distributed Operating Systems," Computing Surveys, Vol. 17, No. 4 (December 1985), pp. 419-470.	

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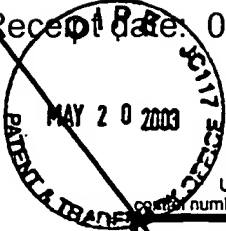
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		First Named Inventor	Sarkozy et al.
		Group Art Unit	2185
		Examiner Name	Kim
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		WEINSTEIN, M.J., et al., "Transactions and Synchronization in a Distributed Operating System," Association of Computing Machinery (December 1985), pp. 115-126.	

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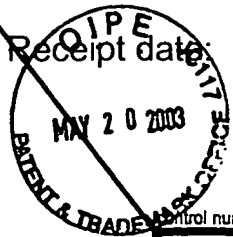
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)		Filing Date	4/12/2001		
		First Named Inventor	Sarkozy et al.		
		Group Art Unit	2185		
		Examiner Name	Kim		
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		WALKER, B., et al., "The LOCUS Distributed Operating System," Association of Computing Machinery (June 1983), pp. 49-70.	
		HARTMAN, J.H., et al., "The Zebra Striped Network File System," ACM Transactions on Computer Systems, Vol. 13, No. 3 (August 1995), pp. 274-310.	
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		"Foreground/Background Checking of Parity in a Redundant Array of Independent Disks-5 Storage Subsystem," IBM Technical Disclosure Bulletin, Vol. 38, No. 7 (July 1995), pp. 455-458.	
		"Limited Distributed DASD Checksum, a RAID Hybrid," IBM Technical Disclosure Bulletin, No. 4a (September 1992), pp. 404-405.	
		"Direct Memory Access Controller for DASD Array Controller," IBM Technical Disclosure Bulletin, Vol. 37, No. 12 (December 1994), pp. 93-98.	
		"Parity Read-Ahead Buffer for Raid System," IBM Technical Disclosure Bulletin, Vol. 38, No. 9 (September 1995), pp. 497-500.	

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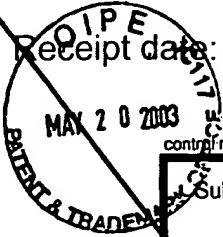
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)				Application Number	09/832,812
				Filing Date	4/12/2001
				First Named Inventor	Sarkozy et al.
				Group Art Unit	2185
				Examiner Name	Kim
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		"Continuous Data Stream Read Mode for DASD Arrays," IBM Technical Disclosure Bulletin, Vol. 38, No. 6 (June 1995), pp. 303-304.	
		"Multibus Synchronization for Raid-3 Data Distribution," IBM Technical Disclosure Bulletin, No. 5 (October 1992), pp. 21-24.	
		"Direct Data Coupling," IBM Technical Disclosure Bulletin (August 1976), pp. 873-874.	
		"Redundant Arrays of Independent Disks Implementation in Library within a Library to Enhance Performance," IBM Technical Disclosure Bulletin, Vol. 38, No. 10 (October 1995), pp. 351-354.	
		"Design for a Backing Storage for Storage Protection Data," IBM Technical Disclosure Bulletin, No. 1 (June 1991), pp. 34-36.	
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		"On-Demand Code Replication in a Firmly Coupled Microprocessor Environment," IBM Technical Disclosure Bulletin, Vol. 38, No. 11 (November 1995), pp. 141-144.	
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		First Named Inventor	Sarkozy et al.
		Group Art Unit	2185
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		"High-Speed Track Format Switching for Zoned Bit Recording," IBM Technical Disclosure Bulletin, Vol. 36, No. 11 (November 1993), pp. 669-674.	
		"Technique for Replicating Distributed Directory Information," IBM Technical Disclosure Bulletin, No. 12 (May 1991), pp. 113-120.	
		"Fault Tolerance through Replication of Video Assets," IBM Technical Disclosure Bulletin, Vol. 39, No. 9 (September 1996), pp. 39-42.	
		"Dual Striping for Replicated Data Disk Array," IBM Technical Disclosure Bulletin, No. 345 (January 1993).	
		"Replication and Recovery of Database State Information in Fault Tolerant Clusters," IBM Technical Disclosure Bulletin, Vol. 36, No. 10 (October 1993), pp. 541-544.	
		"Threshold Scheduling Policy for Mirrored Disks," IBM Technical Disclosure Bulletin, No. 7 (December 1990), pp. 214-215.	
		"Method for Consistent Data Replication for Collection Management in a Dynamic Partially Connected Collection," IBM Technical Disclosure Bulletin, No. 5 (October 1990), pp. 454-464.	
		"Grouping Cached Data Blocks for Replacement Purposes," IBM Technical Disclosure Bulletin (April 1986), pp. 4947-4949.	
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		"Dynamic Address Allocation in a Local Area Network," IBM Technical Disclosure Bulletin (May 1983), pp. 6343-6345.	

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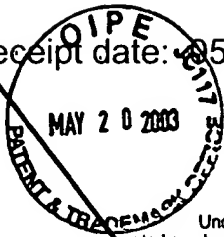
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		"Continuous Read and Write of Multiple Records by Start Stop Buffers between Major and Minor Loops," IBM Technical Disclosure Bulletin (December 1980), pp. 3450-3452.	
		"Read Replicated Data Feature to the Locate Channel Command Word," IBM Technical Disclosure Bulletin (January 1980), p. 3811.	
		"Rapid Access Method for Fixed Block DASD Records," IBM Technical Disclosure Bulletin (September 1977), pp. 1565-1566.	
		"Multimedia Audio on Demand," IBM Technical Disclosure Bulletin, Vol. 37, No. 6B (June 1994), pp. 451-460.	
		"Asynchronous Queued I/O Processor Architecture," IBM Technical Disclosure Bulletin, No. 1 (January 1993), pp. 265-278.	
		"Service Processor Data Transfer," IBM Technical Disclosure Bulletin, No. 11 (April 1991), pp. 429-434.	
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		"Swap Storage Management," IBM Technical Disclosure Bulletin (February 1978), pp. 3651-3657.	
		"Interface Control Block for a Storage Subsystem," IBM Technical Disclosure Bulletin (April 1975), pp. 3238-3240.	
		"Automated Storage Management," IBM Technical Disclosure Bulletin (February 1975), pp. 2542-2543.	

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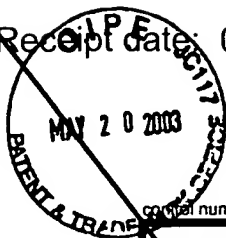
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		"Control Interface for Magnetic Disk Drive," IBM Technical Disclosure Bulletin (April 1980), pp. 5033-5035.	
		"System Organization of a Data Transmission Exchange," IBM Technical Disclosure Bulletin (February 1963), pp. 35-38.	
		"Service Processor Architecture and Microcode Algorithm for Performing Protocol Conversions Start/Stop, BSC, SDLC," IBM Technical Disclosure Bulletin (May 1989), pp. 461-464.	
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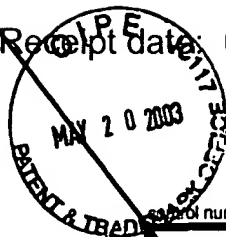
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Substitute for form 1449B/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)		Application Number	09/832,812
		Filing Date	4/12/2001
		First Named Inventor	Sarkozy et al.
		Group Art Unit	2185
		Examiner Name	Kim
		Attorney Docket Number	STO-05RI
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		STODOLSKY, D., et al., "Parity Logging Overcoming the Small Write Problem in Redundant Disk Arrays," 20 <sup>th</sup> Annual International Symposium on Computer Architecture (May 16-19, 1993), pp. 1-12.	
		MOGI, K., et al., "Hot Block Clustering for Disk Arrays with Dynamic Striping," Proceedings of the 21 <sup>st</sup> VLDB Conference, Zurich, Switzerland (1995), pp. 90-99.	
		DAHLIN, M.D., et al., "Cooperative Caching: Using Remote Client Memory to Improve File System Performance," First Symposium on Operating Systems Design and Implementation (OSDI) (November 14-17 1994), pp. 267-279.	
		WOOD, D.A., et al., "An In-Cache Address Translation Mechanism," The 13 <sup>th</sup> Annual International Symposium on Computer Architecture, Tokyo, Japan (June 25 1986), pp. 358-365.	
		CORBETT, P.F., et al., "Overview of the Vesta Parallel File System," Computer Architecture News, Vol. 21, No. 5 (December 1993), pp. 7-14.	
		PATTERSON, D.A., "Massive Parallelism and Massive Storage: Trends and Predictions for 1995 to 2000," Keynote Address, Second International Conference on Parallel and Distributed Information Systems, San Diego California (January 1993), pp. 6-7.	
		UITERWIJK, A., "RAID Storage System; Superflex 3000 Provides Dynamic Growth," InfoWorld (June 17, 1996), p. N/13.	
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		LEVINE, R., "Know Your RAID? You've Got it Made: The explosion in Network Storage Needs is Driving Business to VARs who Understand RAID Technology," <i>VARBusiness</i> (January 1, 1996).	
		"AMI Introduces RAID Technology Disk Array," <i>Worldwide Computer Product News</i> (March 1, 1996).	
		"American Megatrends Inc. has Introduced FlexRAID, a New Adaptive RAID Technology," <i>TelecomWorldWire</i> (February 23, 1996).	
		"ABL Canada's VT2C Demonstrates Unparalleled Flexibility in a Major Application for the U.S. Government BTG Selected for Billion Dollar ITOP Program," <i>Business Wire</i> (May 24, 1996).	
		"American Megatrends' FlexRAID Advances RAID Technology to the Next Level; Adaptive RAID Combines Significant Firmware and Software Features," <i>PR Newswire</i> (February 22, 1996).	
		"American Megatrends' General Alert Software Maximizes Fault Tolerance; Watchdog Utility Significantly Reduces Reaction Time," <i>PR Newswire</i> (February 16, 1996).	
		"American Megatrends Capitalizes on World Wide Web Presence; AMI Site Open for Business with New Look and On-Line Purchase Options," <i>PR Newswire</i> (January 9, 1996).	
		"AMI Offers Detailed Support For SAF-TE RAID Standard; New Standard Will Reduce Error Reaction Time and Increase RAID System Safety," <i>PR Newswire</i> (October 30, 1995).	
		"American Megatrends and Core International Jointly Develop RAIDStack(TM) Intelligent RAID Controller Board; Combination of AMI MegaRAID (TM) Hardware With Core Technology to Revolutionize RAID Market," <i>PR Newswire</i> (October 26, 1995).	
		"AMI Announces New MegaRAID Ultra RAID Controller; New SCSI PC RAID Controller Breaks Speed and Technology Barriers," <i>PR Newswire</i> (October 3, 1995).	
		CROTHERS, B., "Controller Cards; AMI to Unveil DMI-Compliant RAID Controller," <i>InfoWorld</i> (October 9, 1995).	

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		Filing Date	4/12/2001
		First Named Inventor	Sarkozy et al.
		Group Art Unit	2185
		Examiner Name	Kim
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		"American Megatrends Joins RAID Advisory Board," <i>PR Newswire</i> (September 20, 1995).	
		CROTHERS, B., "AMI Moves into RAID Market with New Controller Design," <i>InfoWorld</i> (July 17, 1995).	
		GOLD, S., "HP's Smart Auto-RAID Backup Technology," <i>Newsbytes News Network</i> (August 4, 1995), pp. 1-2.	
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		"Miniguide: RAID Products," <i>Optical Memory News</i> (July 16, 1996).	
		WHIPPLE, D., "EMC Leaps ahead in Market for Mainframe Storage," <i>Business Dateline: Boulder County Business Report</i> (June 1996).	
		BURDEN, K., et al., "RAID Stacks up; The Varied Approach of Rascal, Symmetrix and Iceberg Score Well with Diverse Users," <i>Computerworld</i> (February 26, 1996).	
		"EMC's RAID-S Attains an Industry First with RAID Advisory Board Conformance; Unique RAID-S Implementation is First Mainframe/Open Systems Feature to Receive RAID Level 5 Conformance Certification," <i>Business Wire</i> (December 11, 1995).	
		BABCOCK, C., "RAID Invade New Turf," <i>Computerworld</i> (June 19, 1995), p. 186.	

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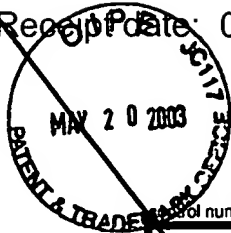
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		Filing Date	4/12/2001
		First Named Inventor	Sarkozy et al.
		Group Art Unit	2185
		Examiner Name	Kim
		Attorney Docket Number	STO-05RI
Sheet	13	of	22

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		ENTICKNAF, N., "Storing Up Trouble; IBM's Problems in the Disc Array Market," ASAP (May 11, 1995), p. 40.	
		"EMC Brings Top Performance to Mainframe Customers with Smaller Capacity Needs," <i>Business Wire</i> (April 17, 1995).	
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		"Making Up Lost Ground; New Redundant Arrays on Independent Disks Offerings from IBM; Includes Related Articles on Storage Companies, Approaches to RAID and IBM Storage Product Plans; Special Report: Storage," ASAP, Vol. 15; No. 7 (July 1994), p. 613.	
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		NASH, K., "EMC Ups Mainframe Storage Ante," <i>Computerworld</i> (November 16, 1992), p. 8.	

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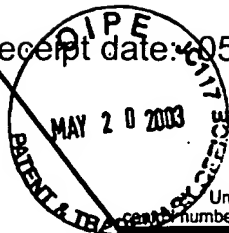
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		Group Art Unit	2185
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		Attorney Docket Number	STO-0581
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		SULLIVAN-TRAINOR, M., et al., "Smaller, Faster, but not Cheaper, EMC's Symmetrix Storage Systems Beat IBM's Conventional DASD in Key Areas Except [sic] Cost and Ease of Customizing," <i>Computerworld</i> (June 15, 1992), p. 72.	
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		GILLIN, P., "EMC Upgrades 3990-like Disk Array by 60%," <i>Computerworld</i> (January 13, 1992), p. 160.	
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		MORAN, R., "PREPARING FOR A RAID--What Are the Benefits of Redundant Arrays of Inexpensive Disks?," <i>Information Week</i> (May 27, 1991), p. 280.	
		"EMC Sees Exceptional Customer Demand for Symmetrix Product Line; March 15 Price Increase Planned," <i>Business Wire</i> (February 13, 1991).	
		TERESKO, J., et al.(ed.), "Next Generation in Data Storage," <i>Industry Week</i> (October 15, 1990), p. 680.	
		"Two Years Ahead of Its Competitors' Projected Delivery Dates, EMC Unveils First 'RAID' Computer Storage System," <i>Business Wire</i> (September 25, 1990).	
		"Best System Corp. purchases Encore Infinity R/T for 3D Virtual Reality [sic] in Motion Simulation Rides," <i>Business Wire</i> (September 17, 1996).	
		"Encore Expands Into New Gaming Market with Best System Inc. and Pacific System Integrators Inc.," <i>Business Wire</i> (September 10, 1996).	

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/H.K./		"ENCORE COMPUTER CORPORATION: South African Farm Cooperative Buys Encore Infinity Data Storage System," <i>M2 Presswire</i> (September 9, 1996).	
/H.K./		"Memorex Telex Sells Encore Infinity SP to Haindl," <i>Business Wire</i> (September 3, 1996).	
/H.K./		"Encore Sells Data Sharing Infinity Storage System to Farm Cooperative in South Africa," <i>Business Wire</i> (August 20, 1996).	
/H.K./		"Encore Reports Second Quarter Financial Results; Product Revenues Increase - Service Declines," <i>Business Wire</i> (August 19, 1996).	
/H.K./		"Encore Computer Corp. Sells Infinity SP30 to 10 <sup>th</sup> Largest Software Company in Germany," <i>Business Wire</i> (July 11, 1996).	
/H.K./		"Encore Sells Real-Time Systems to the French Navy, DCN-Direction Des Constructions Navales \$1 Million Contract," <i>Business Wire</i> (July 9, 1996).	
/H.K./		"Gulf States Toyota, Inc. purchases Encore's Infinity SP Storage Processor with Data Sharing and Backup/Restore Capabilities," <i>Business Wire</i> (June 25, 1996).	
/H.K./		"Encore Awarded a \$3 million Contract for Real-Time Computer Systems from EDF Nuclear Power in France," <i>Business Wire</i> (June 25, 1996).	
/H.K./		"Pepsi-Cola General Bottlers Takes Advantage of Data Sharing Capability of Encore's Infinity SP30," <i>Business Wire</i> (June 11, 1996).	
/H.K./		"Memorex Telex (UK) Ltd. to Sell Encore Infinity SP Storage Processors," <i>Business Wire</i> (June 3, 1996).	
/H.K./		"Amcotec Sells Encore Infinity SP30 to General Accident South Africa," <i>Business Wire</i> (May 28, 1996).	

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Substitute for form 1449B/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)		Application Number	09/832,812
		Filing Date	4/12/2001
		First Named Inventor	Sarkozy et al.
		Group Art Unit	2185
		Examiner Name	Kim
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		Attorney Docket Number	STO-05RI

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/H.K./		"Encore Gets \$3 Million Order for London Underground; Safety Criteria Impose Special Requirements," <i>Business Wire</i> (May 21, 1996).	
/H.K./		"Encore Reports First Quarter Financial Results; Records Initial Storage Product Revenue," <i>Business Wire</i> (May 15, 1996).	
/H.K./		"KPT Inc. Purchases Encore Infinity SP30 Storage Processor for Print Server Applications," <i>Business Wire</i> (May 14, 1996).	
/H.K./		MCHUGH, J. "When It Will Be Smart to be Dumb," <i>Forbes</i> (May 6, 1996).	
/H.K./		"Sikorsky Purchases Encore Computer Systems for Helicopter Simulation," <i>Business Wire</i> (April 22, 1996).	
/H.K./		"Encore Reports Year End Financial Results...\$100M Financing Completed," <i>Business Wire</i> (April 16, 1996).	
/H.K./		"Digital and Encore Computer to Market Infinity Gateway for AlphaServer 8000 Systems," <i>Business Wire</i> (April 10, 1996).	
/H.K./		"ENCORE GETS CONTRACT," <i>Sun-Sentinel</i> (March 26, 1996), p. 3D.	
/H.K./		"Northrop Grumman Purchases Encore Systems for U.S. and French Navy E-2C Project," <i>Business Wire</i> (March 25, 1996).	
/H.K./		"Encore Announces a Simple, Low Cost, Direct Internet Data Facility to Share Mainframe and Open Systems Data," <i>Business Wire</i> (February 29, 1996).	
/H.K./		"Encore Sells Infinity SP30 Storage System; ISC of Miami Realizes Operating Efficiencies and Financial Savings from New Storage System," <i>Business Wire</i> (February 20, 1996).	

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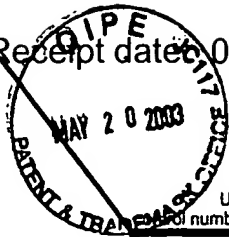
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		Group Art Unit	2185
		Examiner Name	Kim
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		"Encore Sells Infinity SP30 Storage System to GUVV in Germany," <i>Business Wire</i> (February 9, 1996).	
		"Encore Signs Memorex Telex Italia; Italian Distributor to Market the Infinity SP Storage Processor," <i>Business Wire</i> (February 6, 1996).	
		"Encore Wins Award Valued at Over \$1M for PAC-3 Missile," <i>Business Wire</i> (January 29, 1996).	
		"Encore Wins Contract Valued at US\$500,000 from Ceselsa," <i>M2 Presswire</i> (January 25, 1996).	
		"Encore Wins Award Valued at \$500 Thousand from CESELSA," <i>Business Wire</i> (January 23, 1996).	
		"Encore Announces World's Fastest Single Board Computer System," <i>Business Wire</i> (January 10, 1996).	
		"Encore Announces Infinity R/T Sale to ENEL in Italy," <i>Business Wire</i> (December 18, 1995).	
		"Encore Extends Storage Presence to Argentina," <i>M2 Presswire</i> (December 12, 1995).	
		"Encore Extends Storage Presence to Argentina; PANAM TECH to Sell Infinity SP Storage Processors," <i>Business Wire</i> (December 11, 1995).	
		"Encore Announces Sale to Agusta Sistemi in Italy; Alpha AXP-Based Infinity R/T Selected for Simulation," <i>Business Wire</i> (December 4, 1995).	
		"Encore Announces System Sale to Letov in Czech Republic," <i>Business Wire</i> (November 27, 1995).	

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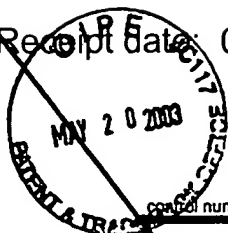
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		First Named Inventor	Sarkozy et al.
		Group Art Unit	2185
		Examiner Name	Kim
		Attorney Docket Number	STO-0581
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		"Encore Ships Computer System for High Speed Magnetic Suspension Train," <i>Business Wire</i> (November 25, 1995).	
		"Encore Reports Third Quarter Financial Results; Encore Makes Progress in Building Storage Distribution," <i>Business Wire</i> (November 20, 1995).	
		DEPOMPA, B. "EMC Device Does Two Jobs-New Enterprise Storage Platform Can Handle Data from Mainframes and Unix Computer Systems," <i>Information Week</i> (November 20, 1995), p. 163.	
		"Encore Signs Major Distributor in Sweden; MOREX to Sell Infinity SP Storage Family," <i>Business Wire</i> (November 13, 1995).	
		STEDMAN, C., "EMC to Open Up Disk Arrays; Symmetrix 5000 Will Store Data From Multiple Platforms," <i>Computerworld</i> (November 6, 1995), p. 14.	
		"Encore Ships Systems to AeroSimulation; Contract Valued at \$1 Million Plus," <i>Business Wire</i> (October 31, 1995).	
		"Encore Wins Award from Lockheed Martin; \$2.4 Million Contract Awarded for MTSS Program," <i>Business Wire</i> (October 24, 1995).	
		"Encore Sets Agreement with Bell Atlantic Business Systems Services for Storage Systems," <i>Business Wire</i> (October 16, 1995).	
		"Encore Accelerates Paradigm Shift; Intelligent Storage Controllers Outfeature and Outperform All Fixed Function DASD Controllers," <i>Business Wire</i> (October 9, 1995).	
		"Encore Infinity SP40 Sets Industry Standard Performance Record for DASD Controllers," <i>Business Wire</i> (October 9, 1995).	
		"News Shorts," <i>Computerworld</i> (October 9, 1995), p.8.	

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		First Named Inventor	Sarkozy et al.		
		Group Art Unit	2185		
		Examiner Name	Kim		
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		"Encore Announces Entry Level Storage System That Revolutionizes Enterprise Wide Data Access; Provides Open Systems Users Direct Access to Mainframe Data," <i>Business Wire</i> (September 19, 1995).	
		CAO, P., et al., "The TickerTAIP Parallel RAID Architecture," HP Laboratories Technical Report (November 1992), pp. 1-20.	
		BERSON, S., et al., "Fault Tolerant Design of Multimedia Servers," SIGMOD (1995).	
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		STAEIN, C., et al., "Clustering Active Disk Data to Improve Disk Performance," Department of Computer Science (September 20, 1990), pp. 1-25.	
		SELTZER, M., et al., "An Implementation of a Log-Structured File System for UNIX," 1993 Winter USENIX (January 25-29, 1993), pp. 7-18.	
		KOHL, J.T., et al., "HighLight: Using a Log-Structured File System for Tertiary Storage Management," (November 20, 1992), pp. 1-15.	
		BERSON, S., et al., "Staggered Striping in Multimedia Information Systems," Computer Science Department Technical Report, University of California (December 1993), pp. 1-24.	
		POLYZOIS, C.A., et al., "Disk Mirroring with Alternating Deferred Updates," Proceedings of the 19 <sup>th</sup> VLDB Conference, Dublin, Ireland (1993), pp. 604-617.	
		STODOLSKY, D., et al., "Parity Logging: Overcoming the Small Write Problem in Redundant Disk Arrays," 20 <sup>th</sup> Annual International Symposium on Computer Architecture (May 16-19, 1993), pp. 1-12.	

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		Examiner Name	Kim
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		HOLLAND, M., et al. "Parity Decustering for Continuous Operation in Redundant Disk Arrays," Proceedings of the 5 <sup>th</sup> Conference on Architectural Support for Programming Languages and Operating Systems (1992).	
		GRAY, J., et al., "Parity Striping of Disc Arrays: Low-Cost Reliable Storage with Acceptable Throughput," Proceedings of the 16 <sup>th</sup> VLDB Conference, Brisbane, Australia (1990), pp. 148-161.	
		HARTMAN, J. H. "The Zebra Striped Network File System," Dissertation, University of California At Berkeley (1994), pp. I-ix and 1-147.	
		"Data Link Provider Interface Specification," OSI Work Group, UNIX International (August 20, 1991), pp. 1-174 and clxxv-vii.	
		"Veritas® Volume Manager (VxVM®): User's Guide, Release 2.3," Solaris™ (August 1996).	
		"IEEE Standard Dictionary of Measures to Produce Reliable Software," The Institute of Electrical and Electronics Engineers, Inc., New York, NY (April 30, 1989), pp. 1-37.	
		"IEEE Standard for Software User Documentation," The Institute of Electrical and Electronics Engineers, Inc., New York, NY (August 22, 1988), pp. 1-16.	
		"IEEE Standard for Software Unit Testing," The Institute of Electrical and Electronics Engineers, Inc., New York, NY (December 29, 1986), pp. 1-24.	
		"IEEE Guide for Software Quality Assurance Planning," The Institute of Electrical and Electronics Engineers, Inc., New York, NY (February 1986), pp. 1-31.	
		"Fourteenth IEEE Symposium on Mass Storage Systems: Storage at the Forefront of Information Infrastructures," Second International Symposium, Monterey, California (KAVANAUGH, Mary E. (ed.)) (September 11-14, 1995), pp. v-xi and 1-369.	

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		"IEEE Guide for the Use of IEEE Standard Dictionary of Measures to Produce Reliable Software," Institute of Electrical and Electronics Engineers, Inc., New York, NY (June 12, 1989), pp. 1-96.	
		"IEEE Guide to Software Configuration Management," The Institute of Electrical and Electronics Engineers, Inc., New York, NY (September 12, 1988), pp. 1-92.	
		"IEEE Standard for Software Quality Assurance Plans," Institute of Electrical and Electronics Engineers, Inc., New York, NY (August 17, 1989), pp. 1-12.	
		"IEEE Standard for Software Test Documentation," The Institute of Electrical and Electronics Engineers, Inc., New York, NY (December 3, 1982), pp. 1-48.	
		COLEMAN, S. and MILLER, S. (eds.), "Mass Storage System Reference Model, Version 4," IEEE Technical Committee on Mass Storage Systems and Technology (May 1990), pp. 1-38.	
		WILKES, J., et al., "Introduction to the Storage Systems Program," Computer Systems Laboratory, Hewlett Packard Laboratories (August 10, 1995), pp. 1-37.	
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		BHIDE, A., et al., "An Efficient Scheme for Providing High Availability," Association for Computing Machinery SIGMOD (April 1992), pp. 236-245.	

Examiner Signature	/Hong Kim/	Date Considered	01/12/2009
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<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

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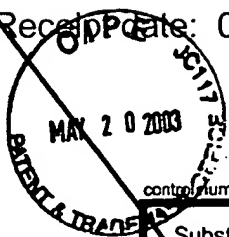
<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

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Received Date: 05/20/2003

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Substitute for form 1449B/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)				Application Number	09/832,812
				Filing Date	4/12/2001
				First Named Inventor	Sarkozy et al.
				Group Art Unit	2185
				Examiner Name	Kim
Sheet	22	of	22	Attorney Docket Number	STO-05RI

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	2
		BORGERSON, B.R., et al., "The Architecture of the SPERRY UNIVAC 1100 Series Systems," IEEE (June 1979), pp. 137-146.	
		BARD, Y., "A Model of Shared DASD and Multipathing," Communications of the ACM, Vol. 23, No. 10 (October 1980), pp. 564-572.	
		CHERITON, D. R., "UIO: A Uniform I/O System Interface for Distributed Systems," ACM Transactions on Computer Systems, Vol. 5, No. 1 (February 1987) pp. 12-46.	

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Examiner Signature	/Hong Kim/	Date Considered	01/12/2009
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Receipt date: 08/02/2001

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE

09/832,812 - GAU: 2185



PATENT AND TRADEMARK OFFICE  
INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT  
(Use several sheets if necessary)

Atty Docket: STOCOM P05AUSRI  
Serial No.: 09/832,812  
Filing Date: April 12, 2001  
Examiner:  
Group: 2185  
Applicant: STORAGE COMPUTER CORPORATION

01/12/2009

U.S. PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Sub- Class	Filing Date, if Appropriate
	4,092,732	05/30/1978	OUCHI	364/900	
	4,761,785	08/02/1988	CLARK et al.	371/51	
	5,644,347	08/06/1996	YANAI et al.	395/489	
	5,574,851	11/12/1996	RATHUNDE	395/182.05	
	5,615,352	03/25/1997	JACOBSON et al.	395/441	
	5,649,152	07/15/1997	OHRAN et al.	395/441	
	5,664,187	09/02/1997	BURKES et al.	395/621	
	5,809,224	09/15/1998	SCHULTZ et al.	395/182.05	
	5,857,112	01/05/1999	HASHEMI et al.	395/828	
	5,890,204	03/30/1999	OFER et al.	711/111	

FOREIGN PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Country	Sub- Class	Class	Translation Yes No
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

HSIAO, Hui-I and David J. DeWITT, "Chained Declustering: A New Availability Strategy for Multiprocessor Database Machines", Computer Sciences Department of the University of Wisconsin, Madison, WI 53706, 1990, pp. 456-465.

LI, Chung-Sheng, Ming-Syan CHEN, Philip S. YU and Hui-I HSIAO, "Combining Replication and Parity Approaches for Fault-Tolerant Disk Arrays", IBM Thomas J. Watson Research Center, P. O. Box 704, Yorktown Heights, NY 10598, April 1994, pp. 360-367.

"Optimal Data Allotment to Build High Availability and High Performance Disk Arrays", IBM Technical Disclosure Bulletin, May 1994, pp. 75-80.

Examiner /Hong Kim/ Date Considered 01/12/2009

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# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 1

## **Complete if Known**

Application Number	09/832,812
Filing Date	04/12/2001
First Named Inventor	SARKOZY, et al.
Group Art Unit	2185
Examiner Name	TBD
Attorney Docket Number	STO-08RI

## **OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	1	JILKE, W., "Disk Array Mass Storage Systems: The New Opportunity," Amperif Corporation, September 25, 1986.	
	2	JILKE, W., "Viewpoint: The Death of Large Disks?" and "Agenda," Gartner Group Third Annual Computer Storage Conference, Phoenix, Arizona, March 12-13, 1987.	

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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**Complete if Known**

<b>Application Number</b>	09/832,812
<b>Filing Date</b>	April 12, 2001
<b>First Named Inventor</b>	Sarkozy, <i>et al</i>
<b>Art Unit</b>	2186
<b>Examiner Name</b>	Kim
<b>Attorney Docket Number</b>	STO-05R1

Sheet	1	of	2
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## U.S. PATENT DOCUMENTS

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**FOREIGN PATENT DOCUMENTS**

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Signature**

/Hong Kim/

**Date**  
**Considered**

01/12/2009

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Sheet 2 of 2

Complete if Known	
Application Number	09/832,812
Filing Date	April 12, 2001
First Named Inventor	Sarkozy, et al.
Art Unit	2186
Examiner Name	Kim
Attorney Docket Number	STO-05R1

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### NON PATENT LITERATURE DOCUMENTS

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	1	"MEMORANDUM OPINION," Storage Computer Corp. v. Veritas Software Corp., et al., Civil Action No. 3:01-CV-2078-N, IN THE UNITED STATES DISTRICT COURT NORTHERN DISTRICT OF TEXAS DALLAS DIVISION, (January 27, 2003) pp. 1-14.	
	2	"EXPERT REPORT OF STEVEN SCOTT," Storage Computer Corp. v. Veritas Software Corp. and Veritas Software Global Corporation, Civil Action No. 3:01-CV-2078-N, IN THE UNITED STATES DISTRICT COURT FOR THE NORTHERN DISTRICT OF TEXAS DALLAS DIVISION, (March 14, 2003) pp. 1-32.	
	3	KLORESE, R., "Enhancing Hardware RAID with VERITAS Volume Manager," Veritas (1994) 7 pages.	
	4	STONEBRAKER, M., et al., "Distributed RAID - A New Multiple Copy Algorithm," Proc. of the 6th International Conference on Data Engineering (February 1990) pp. 1-24.	
	5	"Reliability, Availability, and Serviceability in the SPARCcenter 2000E and the SPARCserver 1000E," Sun Technical White Paper, (January 1995) pp. 1-20.	
/H.K./	6	CALLAGHAN, B., et al., "NFS Version 3 Protocol Specification," Sun Microsystems, Inc., (June 1995) pp. 1-126.	
/H.K./	7	LEACH, P., et al., "CIFS: A Common Internet File System," Microsoft Internet Developer, (November 1996) pp. 1-10.	
/H.K./	8	PAWLOWSKI, B., et al., "NFS Version 3 Design and Implementation," Usenix Technical Conference (June 9, 1994) pp. 1-15.	
/H.K./	9	SANDBERG, R., et al., "Design and Implementation of the Sun Network File System," Usenix Technical Conference, (1985) pp. 1-12.	
/H.K./	10	WALSH, D., et al., "Overview of the Sun Network File System," Usenix Technical Conference, (1985) pp. 117-124.	
/H.K./	11	TANENBAUM, A., "Distributed Operating Systems," New Jersey, Prentice Hall (1995).	

Examiner Signature	/Hong Kim/	Date Considered	01/12/2009
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>				Application Number	09/832,812
				Filing Date	04/12/2001
				First Named Inventor	SARKOZY, et al.
				Group Art Unit	2185
				Examiner Name	Kim
				Attorney Docket Number	STO-05FI
Sheet	1	of	1		

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Examiner Signature	/Hong Kim/	Date Considered	01/12/2009
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Sheet	1	of	2
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<b>Application Number</b>	09/832,812
<b>Filing Date</b>	04/12/2001
<b>First Named Inventor</b>	SARKOZY, et al.
<b>Group Art Unit</b>	2185
<b>Examiner Name</b>	TBD
<b>Attorney Docket Number</b>	STO-0551

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.1	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
	1	5,301,297		Menon et al.	04/05/1994	
	2	5,392,244		Jacobson et al.	02/21/1995	
	3	5,469,453		Glider et al.	11/21/1995	
	4	5,524,204		Verdoorn, Jr.	06/04/1996	
	5	5,659,704		Burkes et al.	08/19/1997	<b>RECEIVED</b>  <b>FEB 14 2002</b>
	6	5,699,503		Bolosky et al.	12/16/1997	
	7	5,774,641		Islam et al.	06/30/1998	<b>Technology Center 2100</b>
	8	6,073,222		Ohran	06/06/2000	
	9	6,076,142		Corrington et al.	06/13/2000	

**FOREIGN PATENT DOCUMENTS**

[illegible]

**Examiner  
Signature**

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<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 2 of 2

**Complete if Known**

Application Number	09/832,812
Filing Date	04/12/2001
First Named Inventor	SARKOZY, et al
Group Art Unit	2185
Examiner Name	TBD
Attorney Docket Number	STO-05R

**OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	†2
	10	"Method for Background Parity Update in a Redundant Array of Inexpensive Disks (RAID)", IBM Technical Disclosure Bulletin, Oct. 1992, pp. 139-141.	
	11	"Host Operation Precedence with Parity Update Groupings for Raid Performance", IBM Technical Disclosure Bulletin, Mar. 1993, pp. 431-433.	
	12	"Parity Preservation for Redundant Array of Independent Direct Access Storage Device Data Loss Minimization and Repair", IBM Technical Disclosure Bulletin, Mar. 1993, pp. 473-478.	
	13	"LRAID: Use of Log Disks for an Efficient RAID Design", IBM Technical Disclosure Bulletin, Feb. 1994, pp. 19-20.	
	14	"Hybrid Redundancy [sic] Direct-Access Storage Device Array with Design Options", IBM Technical Disclosure Bulletin, Feb. 1994, pp. 141-148.	
	15	"Performance Efficient Multiple Logical Unit Number Mapping for Redundant Array of Independent Disks", IBM Technical Disclosure Bulletin, May 1996, pp. 279-274.	
	16	WILKES, ET AL, "The HP AutoRAID Hierarchical Storage System", ACM Transactions on Computer Systems, Feb. 1996, Vol. 14, No. 1.	

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Examiner Signature	/Hong Kim/	Date Considered	01/12/2009
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Substitute for form 1449A/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> B <i>(use as many sheets as necessary)</i>		Application Number	09/832,812
		Filing Date	04/12/2001
		First Named Inventor	SARKOZY, [unclear]
		Group Art Unit	2185
		Examiner Name	TBD
Sheet 1 of 2	Attorney Docket Number	STO-0551	

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
	1	5,519,844		Stallmo	05/21/1996	
	2	5,546,558		Jacobson, et al.	08/13/1996	

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FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				

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Sheet	2	of	2
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**Complete if Known**

<b>Application Number</b>	09/832,812
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<b>Filing Date</b>	04/12/2001
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First Named Inventor	SARKOZY, et al.
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Group Art Unit	2185
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Examiner Name	TBD
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Attorney Docket Number	STO-05R
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
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4 DEVOE, DEBORAH. "Vendors to unveil RAID storage systems." Storage Dimensions' SuperFlex 3000, Falcon Systems' RealTime, (Brief Article), 03/25/1996, pp. 42(1), v18 n13, InfoWorld Publishing Company 1996.

5 "HP's Smart Auto-RAID Backup Technology" Newsbytes 08/04/1995, pNEW08040012, Newsbytes Inc. 1995.

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of

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**Complete if Known**

Application Number	09/832,812
Filing Date	04/12/2001
First Named Inventor	SARKOZY, et al.
Group Art Unit	2185
Examiner Name	TBD
Attorney Docket Number	STO-05RI

**U.S. PATENT DOCUMENTS**

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		Number	Kind Code* (if known)			
	1	3,449,718		Woo	06/10/1969	
	2	3,876,978		Bossen, et al.	04/08/1975	
	3	4,044,328		Herff	08/23/1977	
	4	4,228,496		Katzman, et al.	10/14/1980	
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Application Number	09/832,812
Filing Date	04/12/2001
First Named Inventor	SARKOZY, et al.
Group Art Unit	2185
Examiner Name	TBD
Attorney Docket Number	STO-05RI

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20	4,942,575	Goodlander, et al.	04/17/1990
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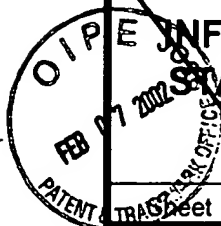
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Application Number	09/832,812
Filing Date	04/12/2001
First Named Inventor	SARKOZY, et al.
Group Art Unit	2185
Examiner Name	TBD
Attorney Docket Number	STO-05RI

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Sheet 3 of 10



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41	5,483,415	Kaczeus, Sr., et al.	01/09/1996
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Application Number	09/832,812
Filing Date	04/12/2001
First Named Inventor	SARKOZY, et al.
Group Art Unit	2185
Examiner Name	TBD
Attorney Docket Number	STO-05RI

**INFORMATION DISCLOSURE  
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Sheet 4 of 10

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Sheet 5 of 10

**Complete if Known**

Application Number	09/832,812
Filing Date	04/12/2001
First Named Inventor	SARKOZY, et al.
Group Art Unit	2185
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Attorney Docket Number	STO-05RI

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		Office <sup>3</sup>	Number <sup>4</sup>				
	78	EP	0201330 A	Thinking Machines Corp.	11/12/1986		
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	80	GB	2086625 A	Western Electric	05/12/1982		
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Sheet 6 of 10

Application Number	09/832,812
Filing Date	04/12/2001
First Named Inventor	SARKOZY, et al.
Group Art Unit	2185
Examiner Name	TBD
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Application Number	09/832,812
Filing Date	04/12/2001
First Named Inventor	SARKOZY, et al.
Group Art Unit	2185
Examiner Name	TBD
Attorney Docket Number	STO-05RI

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Sheet 7 of 10

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Sheet 8 of 10

Application Number	09/832,812
Filing Date	04/12/2001
First Named Inventor	SARKOZY, et al.
Group Art Unit	2185
Examiner Name	TBD
Attorney Docket Number	STO-001



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Application Number

09/832,812

Filing Date

04/12/2001

First Named Inventor

SARKOZY, et al.

Group Art Unit

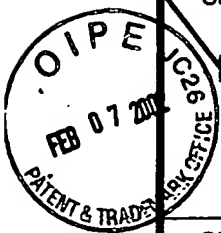
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Attorney Docket Number

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Application Number	09/832,812
Filing Date	04/12/2001
First Named Inventor	SARKOZY, et al.
Group Art Unit	2185
Examiner Name	TBD
Attorney Docket Number	STO-05RI

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		Number	Kind Code <sup>2</sup> (if known)			
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	2	RE34,100		Hartness	10/13/1992	
	3	5,163,131		Row, et al.	11/10/1992	
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	8	5,452,444		Solomon, et al.	09/19/1995	
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		Number	Kind Code <sup>2</sup> (if known)			
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